

SIMKOVIC, I.; BOLF, J.; SISKÁ, K.; GUPKA, M.; SMRECHANSKY, V.;  
SCHNORRER, M.; ZIMA, P.

Apparatus for artificial blood circulation designed in Czecho-  
slovakia. Eksper. khir. 5 no.6:16-22 N-D '60. (MIRA 14:2)  
(PERFUSION PUMP (HEART))

SIMKOVIC, I.; SMRECANSKY, V.; TRANCIK, J.

Contribution to the function of disc oxygenators. Bratisl. lek. listy  
41 no.10:577-585 '61.

1. Z II chirurgickej kliniky Lek. fak. Univ. Komenskeho v Bratislave,  
prednosta akademik SAV K. Siska, nositel Radu prace.

(HEART MECHANICAL)

SMRECHANSKIY, V.[Smrecansky, V.]; SHISHKA, K.[Siska, K.]; SHIMKOVITS, I.  
[Simkovic, I.]; SHNORER, M.[Snorer, M.]; GUBKA, M.[Hubka, M.]

Some problems of perfusion in artificial circulation. Khirurgiia  
no.4:85-92 '62. (MIRA 15:6)

1. Iz 2-y khirurgicheskoy kliniki meditsinskogo fakul'teta uni-  
versiteta imeni Komenskogo i otdeleniya eksperimental'noy  
khirurgii Instituta eksperimental'noy meditsiny Slovatskoy  
akademii nauk (zav. - akad. K. Shishka), Bratislava.

(BLOOD--CIRCULATION, ARTIFICIAL)

SHISHKA, K. [Siska, K.]; SHIMKOVITS, I. [Simkovic, I.]; GUBKA, M. [Hubka, M];  
SMRECHANSKIY, V. [Smrecansky, V.]; SHNORER, M. [Snorer, K.]

Surgery using an apparatus for extracorporeal circulation.

Khirurgia no.9:18-22 '62.

(MIRA 15:10)

1. Iz 2-y khirurgicheskoy kliniki meditsinskogo fakul'teta Universi-  
teta imeni Komenskogo v Bratislave i oddeleniya eksperimental'noy  
khirurgii (zav. - akad. K.Shishka) Instituta eksperimental'noy  
meditsiny Slovatskoy akademii nauk.

(PERFUSION PUMP (HEART))

- [illegible]

*SHIMKOVITS, I.*  
SHNORER, M.; SHISHKA, K.; SHIMKOVITS, I.; GUBKA, M.; SMRECHANSKIY, V.

Changes in the coagulation and anticoagulation blood factors  
during artificial circulation. Khirurgiia 38 no.5:25-27 My '62.  
(MIRA 15:6)

1. Iz 2-y khirurgicheskoy kliniki meditsinskogo fakul'teta  
Universiteta imeni Komenskogo v Bratislave i otdeleniya  
eksperimental'noy khirurgii (zav. - akad. K. Shishka) Insti-  
tuta eksperimental'noy meditsiny Slovatskoy akademii nauk.

(BLOOD--COAGULATION) (BLOOD--CIRCULATION, ARTIFICIAL)

SISKA, K.; SIMKOVIC, I.; VANZUROVA, E.; SCHNORRER, M.; SMRECANSKY, V.;  
HUBKA, M.; ONDROUCHOVA, D.

Postoperative complications and postoperative care of patients  
operated on with the use of extracorporeal circulation. Bratisl. lek.  
listy 42 no.9:523-535 '62.

1. Z II chir. kliniky Lek. fak. Univ. Komenskeho v Bratislave, pred-  
nosta clen koresp. CSAV K. Siska.

(HEART MECHANICAL) (HEART SURGERY compl)  
(POSTOPERATIVE CARE)

KRATOCHVIL, M.; CERNY, J.; SCHNIERER, M.; PETRAS, J.; SIMKOVIC, I.;  
SMRECANSKY, V.

Surgical anatomy of the outflow of the left heart. Bratisl.  
lek. listy 63 no.3:165-169 '63.

1. Laboratorium pre vyskum chirurgickej patofyziologie Lek.  
fak. Univ. Komenskeho v Bratislave, riaditel' doc. MUDr.  
M. Kratochvil.

(AORTIC VALVE) (ANATOMY) (HEART SURGERY)  
(AORTA) (CORONARY VESSELS)



SIMKOVIC, I.; SMRECANSKY, V.; KRATOCHVIL, M.; CERNY, J.

Functional evaluation of membrane pumps. Bratisl. lek. listy  
44 no.4:193-198 '64.

Hemodynamic laws in the arterial sector of the extracorporeal  
circulation. Ibid:199-202

1. II. chirurgická klinika Lek.fak.Univ.Komenského v Bratislave  
(veduci: akademik K.Siska) a Laboratorium pre výzkum chirurgickej  
patofyziologie Lek.fak.Univ.Komenského v Bratislave  
(veduci: prof.M.Kratochvil).

\*

SIMONDOVA, M.; SILVAYOVA, J.; DIMCOVIC, I.; SILVAY, J.; Technická  
spolupraca: CERNICHOVA, M.; FITTOWA, E.; HECCHOVA, E.;  
HLLPICHROVA, G.

Contribution to the use of ACD preserved blood in extracorporeal  
circulation. Bratisl. lek. listy 44 no.7:391-397 15 2 '64.

I. Lekárna transfúzna stanica v Bratislave, (vedouci doc.  
MUDr. M. Hrubisko, C.Sc.); II. chirurgická klinika Lek. Fak.  
Univerzity Komenského v Bratislave, (vedouci prof. MUDr. K.  
Siska, Dr. Sc.) a Oddelenie experimentálnej chirurgie Ústavu  
experimentálnej medicíny Slovenskej akadémie vied v Bratislave,  
(vedouci akademik GSAT K. Siska).

SIMKOVIC, J.; HUBKA, M.; KOSTELINY, J.; SCHMORZER, M.

Effect of hypothermia on circulation. Polski tygod. lek. 13 no.31:  
1181-1187 4 Aug 58.

1. Z Laboratorium Chirurgii Doswiadczonej Slowackiej Akad demii Nauk  
w Bratyslawie; kierownik Akademii DAV prof. dr K. Siska. Adres: Poznan,  
ul. Szkolna 8/12. Doc. dr Jan Moll.

(HYPOTHERMIA, eff.

on blood circ. in dogs (Pol))

(BLOOD CIRCULATION, physiol.

eff. of hypothermia in dogs (Pol))

30

1. "Experimental medicine" and "clinical medicine" are branches of medicine that deal with the study of diseases and their treatment. They are closely related and often overlap.
2. "Experimental medicine" is the study of diseases and their treatment in the laboratory. It involves the use of animals and cells to study the effects of drugs and other treatments.
3. "Clinical medicine" is the study of diseases and their treatment in the patient. It involves the use of physical examination, laboratory tests, and imaging to diagnose and treat patients.
4. "Experimental medicine" and "clinical medicine" are both essential to the advancement of medicine. They provide the knowledge and skills needed to develop new treatments and improve patient care.
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7. "Clinical medicine" is the study of diseases and their treatment in the patient. It involves the use of physical examination, laboratory tests, and imaging to diagnose and treat patients.
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11. "Clinical medicine" is the study of diseases and their treatment in the patient. It involves the use of physical examination, laboratory tests, and imaging to diagnose and treat patients.
12. "Experimental medicine" and "clinical medicine" are both essential to the advancement of medicine. They provide the knowledge and skills needed to develop new treatments and improve patient care.

SIMKOVICOVA, M.; SILVAYOVA, O.; SIMKOVIC, I.; SILVAY, J.; Technicka  
spolupraca: CERNUSAKOVA, M.; FITTOVA, E.; HROCHOVA, L.;  
ULLRICHOVA, G.

Contribution to the use of ACD preserved blood in extracorporeal  
circulation. Bratisl. lek. listy 44 no.7:391-397 15 9 '64.

I. Fakultna transfuzna stanica v Bratislave, (vedouci doc.  
MUDr. M. Hrubisko, C.Sc.); II. chirurgicka klinika Lek. fak.  
Univerzity Komenskeho v Bratislave, (veduci prof. MUDr. K.  
Siska, Dr. Sc.,) a Oddelenie experimentalnej chirurgie Ustavu  
experimentalnej mediciny Slovenskej akademie ved. v Bratislave,  
(veduci akademik CSAV K. Siska).

SIMKOVICOVA, M.; NEUMANN, E.

Isolation and biochemical indices of *Corynebacteria pyogenes*  
var. *hominis*. Bratisl. lek. listy 45 no.3:136-141 15 F '65.

1. Krajska hygienicko-epidemiologicka stanica v Bratislave  
(riaditel: MUDr. F. Schulz).

Simkovich and Korossy. A debreceni Tudományegyetem Ior - es Klinikortani  
Klinikai rol. " Penicillin es a redox-fertekes viszonya Relationship of penicillin to redox-  
dyes Orvosok Lapja 1947, 3/35 (1377-1378)

The antibiotic effect of penicillin on susceptible strains of Staphylococci is increased  
by methylene blue. Ten other dyes of different redox potential were investigated,  
but none of them enhanced the effect of penicillin. The experimental technique is  
described,,but no experimental data are given. It is concluded that the redox potency  
of penicillin plays a role in its antibiotic effect. Straub-Szeged

So: Physiology, Biochemistry and Pharmacology, Section II, Vol. I, #1-6

CA

PROCESSES AND PROPERTIES INDEX

11C

Correlation of penicillin and reduction-oxidation dyes.  
 Guastáv Simkovic and Sándor Korösi (Tudománygy-  
 eremi Horvát Nemzeti Kémia, Debrecen, Hung.).  
 Orvosi Lapja Népegészségügy 3, 1377-8(1947).--The  
 antibiotic effect of penicillin is definitely increased by  
 methylene blue (a dye that has a slight positive electrode  
 potential). Dyes more positive had strong impeding  
 effects as well as dyes with strong negative potentials.  
 Thus, the reduction oxidation potential of penicillin seems  
 to play a significant role in its effect. István Finály

650 5.4 METALLURGICAL LITERATURE CLASSIFICATION

650 5.4 METALLURGICAL LITERATURE CLASSIFICATION



PROCESSES AND PROPERTIES INDEX																									
1ST AND 2ND ORDERS													3RD AND 4TH ORDERS												
<p>CA</p> <p>Contributions to the mode of action of penicillin. I. Vályi-Nagy, G. Smkovic, and J. Uri. <i>Hung. Akad. Tud. 1, 104 0(1918).</i>—In 24-hr.-old agar cultures of <i>Staphylococcus</i>, the addn. of penicillin resulted independently of its concn. in (1) increase of respiration and (2) an impeded respiration leading after some hrs. to cessation of respiration. These effects were independent of the extent to which the various preps. of penicillin had been treated. The <math>O_2</math> consumption of bacteria treated with penicillin increased independently of whether glucose had been added to the soln. It is supposed that this specific oxidation procedure is not due to the effect of the glucose oxidase, since, if it were, the increase of <math>O_2</math> consumption ought to be higher in suspensions contg. glucose than in suspensions without it. The oxidation-reduction balance under the effect of penicillin shifts towards oxidation. The factor causing proliferation with resting bacteria can be paralyzed by penicillin. István Emaly</p>																									
<p>ASM-SLA DETALLURGICAL LITERATURE CLASSIFICATION</p>																									

CA

11C

Substances produced by microorganisms inhibiting the action of antibiotics. Gusztáv Simkovics and Sándor Korösy. *Orvosi Hetilap* 90, 1947-211048. --Expts. were made with the sterile filtrates of 11-day bouillon cultures of various pathogenic bacteria. In particular, *Escherichia coli* and diphtheria, pyocyanus, typhus, and paratyphus organisms produced significant amts. of penicillinase or streptomycinase. No correlation could be observed between penicillin sensitivity and streptomycin sensitivity of bacteria and the amts. of inhibiting substances produced. If minimal amts. of the antibiotic were also added to the cultures then the amt. of inhibitors produced increased

only in case of *B. pyocyanus*. The effect of the inhibiting substances seemed not to be specific, since penicillinase could inhibit the action of streptomycin also and, conversely, streptomycinase inhibited the effect of penicillin. Further investigations are required to prove whether these inhibitors are identical compds. The resistance of bacteria to streptomycin appeared more rapidly than that toward penicillin, but there was no correlation with the formation of penicillinase or streptomycinase. The inhibitors actually decompose streptomycin and penicillin. 10 references. István Fiala

ASB SLA DETAIL OF LITERATURE CLASSIFICATION

SIMKOVIĆ, G.,  
(5487)

A Debreceni Tudományegyetem Bor- és Nemikortani Klinikájáról és Gyógyszertani Intézetéből.  
Bakteriumok szerzett resistenciájáról, különös tekintettel a dehydrogenasek aktivitására  
Acquired resistance of bacteria with particular regard to the activation of dehydrogenases  
Orvosi Hetilap 1949, 90/2 (41-45) Graphs 3  
M. pyogenes aureus, E. coli and Ps. aeruginosa strains were adapted to the bacteriostatic  
effect of methylene blue, trypanflavin, protargol, penicillin and streptomycin. The  
acquired resistance of the different strains varied. Strains adapted to methylene blue  
became resistant also to protargol and trypanflavin, remained, however, sensitive to peni-  
cillin and streptomycin. The acquired resistance against methylene blue disappeared after  
culture in normal broth. The virulence of M. pyogenes did not change when the organisms  
became resistant to methylene blue. The dehydrogenase activity of the adapted strains was  
higher than that of the original strains.

Jeney - Debrecen

So: Excerpta Medica, Vol. II, No. 10, Sect. II, Oct. 1949

SIMKUNAS, V.; VAISVILAITE, O.; MASLAUSKIENE, M., otv. red.

[Complications in applying antibiotics; a bibliographic index for 1948-1958] Komplikacijos gydant antibiotikais; bibliografinis rodykle, 1948-1958. Vilnius, 1960. 77 p. (MIRA 15:5)

1. Vilna. Respublikine mokslinė medicinos biblioteka. 2. Zamestitel' direktora Respublikanskoy nauchno-meditsinskoy biblioteki (for Maslauskiene).

(BIBLIOGRAPHY--ANTIBIOTICS)

SIMKUNAS, V.; MASLAUSKIENE, M.; ZAIKAUSKAS, M., red.; ZILINSKIENE, V., red.; KVIKLYS, V., kand. med. nauk, red.; MOTIEJUNAS, L., kand. med. nauk, red.; NENISKIS, J., kand. med. nauk, red.; STECOVSKIS, A.L., tekhn. red.

[Lithuanian medical bibliography] Lietuviskoji medicinine bibliogra ija. Vilnius, Valstybine moksline medicinos biblioteka. Vol.2. 1958-1960. 543 p. (MIRA 17:3)

1. Predsedatel' Soveta Gosudarstvennoy nauchno-meditinskoy biblioteki Ministerstva zdravookhraneniya Litovskoy SSR (for Zaikauskas). 2. Direktor Gosudarstvennoy nauchno-meditinskoy biblioteki Ministerstva zdravookhraneniya Litovskoy SSR (for Zilinskiene).

\*

SIMKUS, K.

Four cases of allergic reaction to parental administration of  
vitamin H<sub>1</sub>. Sveik. apsaug. 8 no. 2:25-27 F'63.

1. Kauno m. III ligonine. Vyr. gyd. - R. Dumcius.

\*

JUCZAITIS, B., VI k. stud.; SIMKUS, V., V k. stud.; DANIELIUS, J.  
BIZEVICIUS, K.; KACERCIUS, A.; BUTKEVICIUS, P.; NESAVAITE, J.

Treatment of dermatoses with elimination diet. Sveik. apsaug.  
8 no.1:42-43 Ja'63.

1. Kauno Valst. medicinos instituto Odos-veneros ligu dispensaris.

\*

CZYZEWSKA, Jolana, doc. dr.; HAJZIK, Roman; SEILAT, Stanislaw

Organization of the treatment of complications of smallpox vaccination in children during the smallpox epidemic in Wrocław in 1963. Przegl. epidem. 18 no.4:419-421 '64.

1. Z Kliniki Chorob Zakamnych Wieku Dziecięcego Akademii Medycznej we Wrocławiu (Kierownik: doc. dr. J. Gryszewski) i z Ośrodka Matki i Dziecka (Leczący: dr. J. Dąbrowski).



L 31003-20 EAP(k)/EAP(h)/ (11/20/70) 70  
ACC NR: 126022553

SOURCE CODE: CZ/0031/65/013/012/0850/0854

AUTHOR: Melcak, Milas (Engineer); Simlik, Antonin

ORG: Digital Computer Controlled Machinery Attestation Shop, Precision Machine Works, n.p., Gottwaldov (Overovací provoz číslicové řízených strojů ZPS Gottwaldov, n.p.)

TITLE: Digital computer controlled semiautomatic turret lathe from the technological point of view

SOURCE: Strojírenská výroba, v. 13, no. 12, 1965, 850-854

TOPIC TAGS: metal machining, digital computer, lathe, automatic machine, automatic control technology, automatic control design/RPK 25 lathe

ABSTRACT: The article discusses the groups of products with different shapes which are machined with the RPK 25 semiautomatic turret lathe under the control of a digital computer. The design considerations required for successful use of the equipment are stated. Orig. art. has: 8 figures and 3 tables. [JPRS]

SUB CODE: 13, 09 / SUBM DATE: none / ORIG REF: 001

Card 1/1

UDC: 621.941.232: 621.941.236: 621.9-52

III. E. *typhimurium* tularensis. The role of *E. typhimurium* in Poland.  
Przegląd Lekarski, Cracow 1949, 5: 15-16 (465-468)

On the basis of observations and facts discovered during the mass occurrence of field rodents in the western territories of Poland during 1946/47, it may be established as a fact that tularemia has become a matter of interest for two reasons: public health and the possibility of rapid control of field-rodent infestation. In Poland there exist all the ecologic conditions indispensable to the survival and spread of the causative organism. In the course of investigations carried out on field rodents in the years 1946-47, *E. tularensis* was discovered in one specimen of the field mouse, and the rapid extinction of the rodents in spite of the presence of cereals may be proof here of a certain role played by tularemia.

Kozar --Gdansk

So: Medical Microbiology and Hygiene, Section IV, Vol. 3, No. 1-6

SIMM, K.

Żebielik karleszek (*Crocidura mimula* Miller) in Poland. Krakow, Naki. Pols. lej Akademii Umiejetnosci, 1952. 11 p. (Materialy do fizjografii kraju, nr. 31. Documenta physiographica Poloniae, no. 31) *Crocidura mimula* Miller (Soricidae) in Poland. English and Russian summaries. Bibl./

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress, Feb. 1954, Uncl.

SIMM, Kh. A.

MD (The pharmacological properties of the celandine (*Chelidonium majus*). Kh. A. Simm, *Izvest. Akad. Nauk Eston. S.S.R.* 1953, No. 3, 435-9; *Russk. Zhur. Khim., Biol. Khim.* 1953, No. 8402.—The alkaloid (I) content of celandine (II) increased towards the end of the growth and fruit-ripening period from 0.48 to 1.04% on the dry wt. basis. More of I is found in the roots (up to 1.15%) than in the leaves (up to 0.66% on the dry basis). The content of I in II varies from year to year and with the climatic and seasonal changes. Highest ascorbic acid (III) was found in the leaves (834 mg. %) during the period of blooming; and the lowest (231 mg. %) during the time of fruit falling. The fruit had the lowest III content; drying further reduced it. B. S. Levina.

1. KH

The vector  $\mathbf{I}$  indicates the nucleus content of the vector of Estonian cash

TARTU TOLO NOLIKU HURFIMIST. AID - ERIK OJAFSKA. ISS. TLOVAKII.  
Tartu, Hungary. no. 1, 1958.

Monthly List of East European acquisitions (EEAI) LC, vol. 3, no. 11  
November 1959

Encl.

SECRET

Hydrochemical data on Vortsjarv. p. 155.

HYDROCHEMICAL DATA. GIDROBIOLOGICHESKIE ISSLEDOVANIA.  
Tartu. Hungary. No. 1, 1958.

Monthly List of East European Accessions (MEAI) LC, vol. 8, no. 11  
November 1959.

Uncl.

HABERMAN, H., akaderik, red.; VELDRE, I., kand. biol. nauk, red.;  
MAKRETS, A., red.; SIMM, A., kand. farm. nauk, red.; LAUL, U.,  
tekhn. red.

[Hydrobiological research] hidrobioloogilised uurimused.  
Tartu. Vol.2. 1961. 411 p. (MIRA 15:2)

1. Eesti NSV Teaduste akadeemia. Zooloogia ja botaanika  
instituut. 2. Akademiya nauk Estonskoy SSR (for Haberman).  
(Hydrobiological research)

SIMM, SzczeciŃy (Poznań, Libelta 22)

Diagnosis of uterine cancer. Gyn. polska 25 no.1:49-60 Ja-Mr '54.

1. Na podstawie materialu Kliniki Położnictwa i Chorob Kobięcych  
Akademii Med. w Poznaniu. Kierownik: prof. dr med. I. Roszkowski.  
(UTERUS, neoplasma,  
\*diag., cytol.)



SIMM, Szczesny

Vaginal smear in the second half of normal pregnancy; preliminary communication. Gin. polska 26 no.1:61-68 Jan-Mar 55.

1. Z Kliniki Poloznictwa i Chorob Kobietych A.M. w Poznaniu.  
Kierownik: prof. dr I. Roszkowski.

(VAGINAL SMEARS, in pregnancy,  
in second half)

(PREGNANCY,  
vaginal smear in second half)

SIWM, Szczesany; KUCZYNSKI, Jozef

Vaginal smear in normal pregnancy. Gin. polska 28 no.4:  
519-526 July-Aug 56.

1. Z Kliniki Poloznictwa i Chorob Kobietych A.M. w Poznaniu.  
Kierownik: prof. dr. I. Roszkowski. Poznan, Libelta 22.  
(PREGNANCY,  
vaginal smears (Pol))  
(VAGINAL SMEARS, in pregnancy  
(Pol))

SIMM, S.; GRYS, E.; WYRZYKIEWICZ, T.

Progress in the early diagnosis of uterine cancer with  
cytological and histological methods in the years 1951-1955.  
Polski tygod. lek. 12 no.1:13-17 1 Jan 57.

1. (Z Kliniki Położnictwa i Chorob Kobietych A.M. w Poznaniu;  
kierownik: doc. dr. med. W. Michalkiewicz). Adres: Poznań, ul.  
Libelta 22 m 6.

(UTERUS, neoplasms  
diag., cytol. & histol. methods, statist. (Pol))

SIMM, Szczesny

Cytodiagnostics of the uterine cervix canal. Gin. polska  
28 no.1:87-89 Jan-Feb 57.

1. Z Kliniki Poloznictwa i Chorob Kobietych A.M. w Poznaniu  
Kierownik: doc. dr. W. Michakiewicz, Poznan, Libelta 22 m. 6.  
(CERVIX NEOPLASMS, diag.  
cytol., instrument for taking cytol. material from  
cervical canal (Pol))

SIMM, Szczesny (Poznan, ul. Libelta 22 m. 6)

Ambulatory department for patients with erosion of the vaginal portion of cervix. Polskie tygod. lek. 14 no.1:30-33 5 Jan 59.

1. (Z I Kliniki Położnictwa i Chorob Kobietych A. M. w Poznaniu;  
kierownik: doc. dr med. E.W. Michalkiewicz)  
(CERVIX, UTERINE, pathol.  
erosion (Pol))

EXCERPTA MEDICA Sec 10 Vol 12/12 Obstetrics DEC 59

2129. THE CYTOLOGY OF THE METAPLASTIC CHANGES OF THE CERVICAL  
EROSION - Simm S. First Obstet. and Gynaecol. Clin., Med. Acad.,  
Poznań - GYNAECOLOGIA (Basel) 1959. 147/2 (80-91) Tables 1 illus. 10

The process of cervical erosion begins when cervical cylindrical epithelium for some reason penetrates beyond the external orifice. This alteration is called papillary erosion. The cylindrical glandular epithelium is replaced by multi-layered squamous epithelium when the so-called reserve cells replace the cylindrical epithelium and are transformed into flat cells. Such an erosion is described as erosion in the stage of epidermization. These reserve cells are multipotential embryonic cells situated under the cylindrical epithelium. This metaplasia may lead to the formation of paratypical or atypical cells as the beginning of the development of carcinoma. In 159 cases a comparative study was made between a biopsy and a smear. The smears contained many of these metaplastic cells, especially in cases of erosion in the state of epidermization. They are described in detail, mainly in order to make it possible to distinguish them from paratypical cancerous cells, into which they are sometimes transformed. Wallenburg - Soek (X, 5)

SIMM, Szczeany

Cytodiagnosis of erosions of the cervix uteri. Poznan.tow.przyjaciol  
nauk, wydz. lek. 18 no.3:1-55 '60.  
(CERVIX UTERI dis.)

SIMM, Szczesny

Blood extravasation in the uterine mucosa. Ginek. pol. 33 no.5:  
659-672 '62.

1. Z I Kliniki Poloznictwa i Chorob Kobietych AM w Poznaniu. Kierownik:  
prof. dr med. W. Michalkiewicz.  
(UTERINE HEMORRHAGE)



MIKHALKEVICH, V. [Michalkewicz, W.]; PRZHBORA, L.A. [Przybora, L.];  
SIMM, S.; VOL'NA, M. [Wolna, M.]

Compound histo-cytoclinical evaluation as a method for the  
detection of precancerous conditions and preinvasive cancer  
of the cervix uteri. Akush. i gin. 40 no.2:102-107 Mr-Apr '64.  
(MIRA 17:11)

1. 1-ya akushersko-ginekologicheskaya klinika (rukovoditel' -  
prof. V. Mikhalkovich) Meditsinskoy akademii, Poznan'.

SDM, Szczesny; GLINECKI, Stanislaw

The application of dihexiverine in the first stage of labor.  
Ginek. Pol. 36 no.2:173-178 F '65

1. Z I Kliniki Poloznictwa i Chorob Kobietych Akademii Medycznej w Poznaniu (Kierownik: prof. dr. med. W. Michalkiewicz).



SIMM, Szczesny; DUBIEL, Jan

On the problem of chemotherapy of the ovarian and uterine cancer.  
Ginek. Pol. 36 no. 12:1409-1413 D ' 65.

1. Z I Kliniki Poloznictwa i Chorob Kobietych AM w Poznaniu  
(Kierownik: prof. dr. med. W. Michalkiewicz).

AKSMAN, N.M.; VILENSKIY, L.I.; GORBUNOV, N.G.; GUBSKIY, V.N.; GURVICH, M.D.; LATYSHEV, Yu.M.; LEVONFIN, L.I.; LIVSHITS, T.G.; LOGINOVA, M.K.; LUR'YE, D.A.; LYANDRES, G.D.; MIROSHNICHENKO, G.K.; MOGILEVSKIY, B.Ya.; NEMKOVSKIY, M.I.; ORLEANSKIY, Ya.P.; SAVITSKIY, A.N.; SIMMA, S.P.; SURKOV, G.Z.; SHMYGUL', B.P.; SHUBIN, V.P.; DONSKOY, Ye.Ye., red.izd-va; KAL'NITSKIY, R.Ya., red.izd-va; ZAMAKHOVSKIY, L.S., tekhn.red.

[Mechanization and automation in the machinery industry] Mekhanizatsiya i avtomatizatsiya v stankostroenii. Khar'kov, Khar'kovskoe obl.izd-vo, 1958. 119 p. (MIRA 13:2)

1. Kharkov. Institut "Giprostanok." 2. Direktor instituta "Giprostanok" (for Orleanskiy).  
(Machinery industry--Technological innovations)  
(Automation)

L 8894-66	EWA(b)-2/EWA(j)/EWT(1)/FS(v)-3	DD/JK
ACC NR: AP5027365	SOURCE CODE: CZ/0062/65/007/006/0409/0424	
AUTHOR: Komarek, J. -- Komarek, I.; Simmer, J. -- Simmer, Ya. 48		
ORG: Laboratory for Experimental Algology, Institute of Microbiology, Czechoslovak Academy of Sciences, Trebon		
TITLE: Synchronization of Scenedesmus quadricauda cultures		
SOURCE: Biologiya plantarum, v. 7, no. 6, 1965, 409-424		
TOPIC TAGS: plant development, algae, biologic reproduction, synchronous culture		
<p>ABSTRACT: Methods of synchronizing Scenedesmus quadricauda cultures are described. Algal cultures at 18—22C in cultivation flasks were illuminated with fluorescent lamps (intensity <math>1.25 \cdot 10^4</math> erg/cm<sup>2</sup>s). Light and dark intervals were determined strictly by the state of the culture. Air enriched with 3—5% CO<sub>2</sub> was bubbled continuously through the culture medium. The following parameters of the synchronized culture were studied: average length of the coenobia and distribution according to length, dry weight, number of cells, packed cell volume, and optical density. With constant temperature and light intensity, a synchronized culture can be kept in this state for any length of time. Experimental results showed two main periods in the life cycle of Scenedesmus quadricauda, just like those observed for Chlorella ellipsoidea: 1) a light-dependent growth phase and 2) a reproductive phase independent of light. Autocoenobia are released from the mother cell gradually; thus, 100% synchro-</p>		
Card 1/3		2

L 8894-66

ACC NR: AP5027365

nization of *Scenedesmus* is never possible. Under these conditions one life cycle took 60—90 hr (the time ratio of growth to reproductive phase was 2—2.5 to 1). Changes in the culture during ontogenesis are shown in Fig. 1. Quantification of the degree

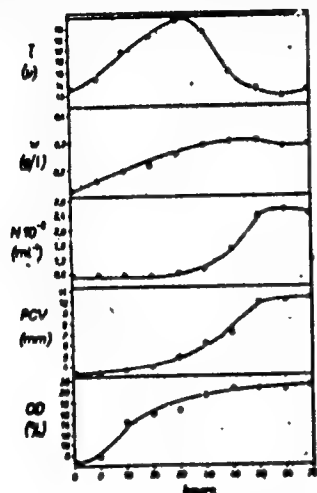


Fig. 1. Course of the main factors followed in a synchronized culture of *Scenedesmus quadricauda* during one life cycle

l - Average length of the coenobium, w - dry weight; N - number of cells; PCV - packed cell volume; OD - optical density of the suspension.

of synchronization achieved for a given population of organisms (at any phase in their life cycle) is accomplished with the help of information theory. Sample calculations are presented. Orig. art. has: 9 figures and 2 tables. [JB]

Card 2/8

L 8894-66

ACC NR: AP5027365

SUB CODE: 06/ SUBM DATE: 23Dec64/ OTH REF: 021/ SOV REF: 001/ ATD PRESS:

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Card 3/3



USSR/Human and Animal Physiology - (Normal and Pathological).  
General Problems.

T.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 31352

Author : Vasil'yev, I.G., ~~Sinitskaya, L.P.~~, Sklyapchim, Ye.L.,  
Smirnov, K.M., Filippov, B.G., Khitun, S.A., Shatalov, A.M.

Inst : -

Title : On the Daily periodicity of Human Efficiency.

Orig Pub : Fiziol, zh. SSR, 1957, 43, No 9, 817-824.

Abstract : No abstract.

Card 1/1

ABONYI, Ivan, dr.; SIMNO, Armand.

New Nobel prize winners. Klet tud 19 no.5:195-199  
31 Ja '64.

SIMO, B.

## HUNG.

✓Determination of the phosphorus pentoxide content of silicate rocks. V. FLORA, B. SIMO, AND L. ERDEY. *Acta Chim. Acad. Sci. Hung.* 5 [1-2]:66-68 (1964).—A new method for the determination of  $P_2O_5$  that is much faster than the usual gravimetric method is described.  $P_2O_5$  is measured colorimetrically with a solution of the finely powdered substance in molybdenum blue-ascorbic acid. Only 1 gm. of pulverized substance is required. About 9 hr. is saved in time, and the accuracy is very high. Measurements made both gravimetrically and colorimetrically on 44 rock samples are described in detail. 8 references.

M.H.A.

SIMU, B,

53. Determination of the phosphorus content of silicate rocks -- *Szilárdok és a foszfor tartalmának meghatározása* -- V. Földes, B. Simó and L. Erdely. (Hungarian Journal of Chemistry -- *Kémiai Közlemények* -- Vol. 60, 1954, No. 3, pp. 89-93, 2 tabs.)

The purpose of these investigations was to find a colorimetric method for the determination of phosphorus in silicate rocks which takes less time than the classical gravimetric procedure. No satisfactory solution to the problem was reached by the reduction of the phosphomolybdate complex by stannous chloride, hydroquinone or metallic molybdenum in this special case. The essentials of the new procedure are: the digestion and the preparation of the stock solution from a 1 g sample was carried out by the Dittler method, from 0.05 to 0.1 g samples with some modifications according to the method described by Alimarin and Shekolokaya. The stock solution should be diluted if necessary. A portion of 10 ml of this stock solution (containing 25-250 µg of phosphorus pentoxide) is transferred into a graduated volumetric flask of 50 ml capacity, 20 ml of N-sulfuric acid, 5 ml of a 2% ammonium molybdate solution and 10 ml of a 0.1 N-ascorbic acid solution are added, filled up to volume and mixed. After standing for 15 minutes readings are taken with a Pulfrich-type colorimeter using an S 72 colour filter. The method saves time and chemicals, the values are in good agreement with the results obtained by gravimetric determinations.

1. Determination of the manganese content of iron and manganese ores and  
rocks containing silicate. p. 361.  
See also: Manganese content in iron sulfide. p. 365.

Vol. 1, No. 3, Mar. 1955.

KONASHEV IAKOF.

TECHNOLOGY

Indust, Ministry

See also: Manganese Accession, Vol. 1, No. 1, May 1956

511, .

Photometric determination by means of ascorbic acid of the phosphorus content in rocks from filtrates of silicic acid.

P. 476. (R HASLATI LAPOR.) (Budapest, Hungary) Vol. 12, No. 10, Oct. 1957

So: Monthly Index of East European Accession (EAI) LC. Vol. 7, No. 5, 1956

Distr: 4E2c/4E2c(j)

Determination of small amounts of copper in iron ores in the form of pyridine-rhodamide complex. <sup>27</sup> Bela Simb. <sup>4</sup> *Zolary*  
Kohászati Lapok 91, 341-3 (1958).—To det. the Cu content of ores contg. 0.01–0.001% Cu, weigh 0.5 g. finely ground sample into a 100-ml. beaker and dissolve in a mixt. of 3 ml. HCl and 2 ml. HNO<sub>3</sub>. Add 4 ml. 1:1 H<sub>2</sub>SO<sub>4</sub> and evap. until the appearance of white fumes. Filter, by using a 90 mm. diam. hard paper, wash the ppt. with hot 1% H<sub>2</sub>SO<sub>4</sub>, and collect the filtrate in a 250-ml. beaker. Neutralize with concd. NH<sub>4</sub>OH, then add an excess of 10 ml., boil to coagulate the ppt., filter with a 110 mm. diam. semi-hard paper, and wash with hot H<sub>2</sub>O. Dissolve the ppt. in 10 ml. 1:1 HCl and repeat the pptn. Combine the filtrates and, depending upon the Cu content, prep. a 50- or 100-ml. stock soln. or evap. to 20 ml. To 20 ml. of this soln., in a 100-ml. separatory funnel, add 1 drop phenolphthalein soln., 3 drops N H<sub>2</sub>SO<sub>4</sub>, 6 ml. 10% NH<sub>4</sub>CNS soln., and 1 ml. 10% pyridine soln.; shake for 80 sec., add 10 ml. CHCl<sub>3</sub>, shake another 80 sec., and sep. the layers. Photometrically evaluate the yellowish green CHCl<sub>3</sub> fraction. To prep. a standard, dissolve 3.627 g. CuSO<sub>4</sub>·5H<sub>2</sub>O in a few ml. water, add 6 ml. 1.84 sp. gr. H<sub>2</sub>SO<sub>4</sub>, and make up to 1000 ml. with H<sub>2</sub>O at 20°. The soln., after thorough shaking, will contain 1 mg. Cu/ml. Dil. 100 ml. to obtain a soln. contg. 0.01 mg. Cu/ml. and use 1, 3, 5, and 10 ml., resp., to prep. a standard curve. To realize the max. sensitivity of the method, the CHCl<sub>3</sub> ext. should preferably contain 0.1 to 0.01 mg. Cu/10 ml. L. G. Arvink  
6W  
11  
jff

SIMO, Bela, dr.

Photometric determination of phosphorus content of rocks by  
ascorbic acid formed in silicic acid filtrates. Koh lap  
12 no. 10:476-477 0 '57.



POKA, Terez; SIMO, Bela, dr.

Analysis of stone coal ash from the Nagybatony brown  
coal-pyroxine andesite contact. Foldt kozl 94 no.1:89-  
95 Ja-Mr '64.

HUNGARY

SIMO, Benedek, Dr; Szeged. [affiliation not given].

"Reposition of Small Intestine-Invagination of Cattle Through the Rectum."

Budapest, Magyar Allatorvosok Lapja, Vol 6, No 18. June 63, pp 256-257.

Abstract: [Author's Hungarian summary] Diseases associated with colic in cattle can only be diagnosed reliably by rectal examination. Invagination of the small intestine was corrected through the rectum in two cases, by the author. The invaginated section of the bowel was freed by grasping and compressing the invaginated section with the hand through the rectum. The manipulation is facilitated by relaxation of the smooth muscles of the bowels with injection of papaverine. No references.

SIMC, E.

Electrical Engineering Abst.  
Vol. 57 No. 673  
Jan. 1954  
Electrical Engineering

627.915.221  
1954. Materials of the new type, non-halogenated  
poly. E. S. S. (Zhuravskaya, 64, 233-9 (Sept.,  
1953) in Zhuravskaya.

After a general discussion of diffusion through  
hydrophobic and hydrophilic layers, a detailed  
analysis is given of the mechanical and electrical  
properties of the insulators used in cable manufacture.  
The necessary mechanical and anti-corrosion prop-  
erties of bituminous covering materials are also briefly  
discussed.  
V. P. SMOY

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8-13-54

51. , 2.; D.O. 100. 1.

The part played by underground water in the total drainage of the Vah  
River in the period 1931-1940. p. 3.

Vol. 3, No. 1/2, 195  
VODOPISPODAVNI ZBORIS  
Bratislava, Czechoslovakia

Source: East European Accession List. Library of Congress  
Vol. 5, No. 1, August 1956

3. 1. 1.

The problem of determining the average precipitation in a river basin. p. 147.

Vol. 3, no. 3/4, 1957  
VOJENSKOPROSVETNÝ ZASOBY  
Bratislava, Czechoslovakia

Source: East European Reference List. Library of Congress  
Vol. 6, no. 4, August 1956



possibilities of the indirect determination of the annual flow values in Slovakia  
based on the relation between annual precipitations and the flow of water in rivers.

p. 188 (Vojvodskopodarsky Calcpin. Vol. 5, no. 3, 1957, Bratislava, Czechoslovakia)

Monthly Index of East European Accessions (ETAL) LC. Vol. 7, no. 2,  
February 1958

S 110 62 000 004 001 002  
1004 1204

AUTHOR: Boldina, Ye. A. Engineer, Zvorono, Ya. P., Engineer, Pesotskiy, A. A., Engineer,  
Simo, I. N., Engineer and Sorokina, A. P., Engineer

TITLE A device for electromagnetic string of an 80-ton electric arc furnace

PERIODICAL: Vestnik elektromyshlennosti, no. 4, 1962, 43-49

TEXT: Electromagnetic stirring of molten metal is achieved by means of a rotating magnetic field created by a flat, two-pole stator located below the furnace. To attain deep penetration of the magnetic field into the metal the frequency of the current should be the order of tenths of a cps. The proximity of the hot (up to 250 C) furnace bottom and the substantial linear loading of the stator create a difficult cooling problem. Air cooling and water cooling systems were constructed and their main technical and economical features compared in a table. Water cooling of the stator by passing water directly through the hollow conductors of the windings proved to be the most effective and economical cooling method, considerably saving the silicon insulating material and saving 30% of copper as compared with the air cooling system. A complete electric diagram of the stator circuit is given. Sinusoidal form of the current feeding the stator was secured by means of a negative voltage feedback network. Distribution of the magnetic field above the stator was studied by means of a Hall probe. Distribution curves are shown on a graph. Velocity of the molten metal under actual operation conditions was estimated visually and it reached 0.35 m/sec. there are 5 figures, and 2 tables.

Card 1/1



VALI, Gabor, red. VERESH, Mariya [Veres, Maria], red.; ~~SHIMO, Iyeno~~  
[Sino, Jeno], osv. red.

[Hungary today] Segodniashniaia Vengriia. Budapest, Szikra,  
1949. 6 p. illus. (MIRA 15:4)  
(Hungary--Views)

GUREVICH, E.I., inzh.; KONOVAIOVA, K.N., inzh.; MYSHLENKOVA, N.K., inzh.;  
SENCHUGOV, K.I., inzh.; SIMO, I.N., inzh.

Study of the TVF-100-2 trubogenerators manufactured by the  
"Elektrosila" factory. Elek. sta. 35 no.12:25-28 D '64.  
(MIFA 18:2)

BOLDINA, Ye.A. inzh.; ZVORONO Ya.P. inzh.; PESOTSKIY, A.A., inzh.;  
SIMO, I.N., inzh.; SOROKINA, A.P., inzh.

Electromagnetic mixing system in an 80-ton electric-arc furnace.  
Vest.elektroprom. 33 no.4:46-49 Ap '62. (MIRA 15:4)  
(Electric furnaces)

SHK, J.

SHK, J. Taking an inventory of machine-tractor equipment by using an index.  
p. 6.

Vol. 7, No. 1, Jan. 1957  
MECHANISACE ZEMEDELSTVI  
A RICH'TURE  
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

SEMP, J.

National Conference of Engineers in Fine Ceramics. p. 281.  
Vol 7, no. 8, Aug. 1955. EPITOANYAG. Budapest, Hungary.

So: Eastern European Accession. Vol 5, no. 4, April 1956

Simo, J.

The cooperation of decorative artists with the fine ceramic industry. p. 283

EPITOANYAG. (Epitoanyagipari Tudományos Egyesület)  
Budapest, Hungary. Vol. 11, no.8, August 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no.11  
November 1959  
Uncl.

Simo, J.

Correlations between technical and economical factors in the fine  
ceramics industry. p. 305

EPITOANYAG. (Epitoanyagipari Tudományos Egyesület)  
Budapest, Hungary. Vol. 11, no.9, September 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no.11  
November 1959  
Uncl.

SIMO, Mihaly

"Mousie", the first winner of the Golden Wreath. Repules  
13 no.12:8 D '60.



R/002/61/000/009/012/012  
D015/D105

AUTHOR: Simo, P., Engineer

TITLE: Fatigue of metals

PERIODICAL: Știință și Tehnică, no. 9, 1961, 34

TEXT: The article deals with the principles of fatigue of metals, as well as fatigue-testing machines and methods. The "Vibrofor" is used for computing the resistance of parts to fatigue. A series of practical measures was established, guaranteeing engine parts a high resistance to various stresses. These measures are divided into two categories: the first is based on careful selection of material, and the second on appropriate design of parts. Some machining operations tend to reduce resistance to fatigue; this danger can be eliminated by certain technological processes, such as cold racking, surface polishing, etc.

ASSOCIATION: Institutul politehnic Brașov (Brașov Polytechnic Institute)

Card 1/1

SIMO, Tibor

Reviewing the artistic ensembles of the Trade Union of Metallurgists.  
Munka 9 no.1:20 Ja '59.

1. Kohasz Szakszervezet kulturális osztályának vezetője.

SIMO, Tibor

Iron workers as creative artists. Munka 11 no.2:20 F '61.

1. Vas- és Fémpari Dolgozók Szakszervezete kulturális osztályának  
h.vezetője.

(Hungary—Iron and steel workers)  
(Hungary—Art)

SIMJ, Tibor

Musical quiz of industrial students. Munka 11 no.3:16-17 Mr '61.

1. Vas- es Femipari Dolgozok Szakszervezete kulturális osztályának  
h.vezetoje.

(Hungary—Technical education)  
(Hungary—Music)

SIMO, Tibor

Education of ~~commuting~~ workers; experiences in Salgotarjan. Munka 11  
no.4:13 Ap '61.

1. Vas- es Femipari Dolgozok Szakszervezete kulturális osztályának h.  
vezetője.

(Hungary—Iron and steel workers)  
(Hungary—Education of adults)

SIMO, Tibor

Diosgyor dancers in the region of Mont Blanc. Munka 11 no.8:19  
Ag '61.

(Hungary—Dancing—Folk and national dances)  
(Hungarians in Switzerland)

SIMO, Willy

Competition flight in Hungary. Pt. 2. Repules 16 no.6:14  
Je '63.

1. Vitorlazorepulo valogatott keret tagja.

SIMOCHATOV, N.P., inzh.; SIDANOV, I.A., inzh.

Some blocking circuits for grounding knife switches. Elek. sta.  
32 no.11:69-73 N '61. (MIRA 14:11)  
(Electric switchgear) (Electric currents--Grounding)



SIMOCHATOV, N.P., inzh.; BURKOV, A.I., master

Concerning the defects of MKP-220 oil cutouts. Elek. sta. 33  
no.6:56-57 Je '62. (MIRA 15:7)

(Electric cutouts)

SIDANOV, I.A., inzh., ~~SIMCHATOV, N.P.~~, inzh.

Storage battery circuit with equalization of the operation of  
terminal elements. Energetik 11 no.1:14-16 Ja '63. (MIRA 16:1)  
(Electric power distribution) (Storage batteries)

SIDANOV, I.A., inzh.; SIMOCHATOV, N.P.

Advantages and shortcomings of oil-filled and air switches.  
Elek. sta. 34 no.1:76-78 Ja '63, (MIRA 16:2)

1. Moskovskoye rayonnoye upravleniye energeticheskogo  
khozyaystva.

(Electric switchgear)

SIMCCHATOV, N.P.

Wages of the workers of electric power plants. Energetik 13 no.6,  
27 Je '65. (NIRA 18:7)

1. Sekretar' Tsentral'nogo komiteta professional'nogo soyuza rabochikh  
elektrostantsiy i elektropromyshlennosti.

SIMOCHATOV, N.P.

For high-quality work in power engineering enterprises. Energetik  
13 no.10:1-3 0 '65. (MIRA 18:10)

1. Sekretar' Tsentral'nogo komiteta professional'nogo soyuza  
rabochikh elektrostantsiy i elektropromyshlennosti.

SINCHENINA, N. YA.

Wheat

Germination of grain and resistance to cold of winter wheat when the germ is transplanted on a foreign endosperm. Dokl. AN SSSR #2 no. 4, 1952.

Institut Genetiki i Seleksii  
Akademii Nauk USSR. recd 27 Nov. 1951

SO: Monthly List of Russian Accessions, Library of Congress, June 1952 ~~1953~~, Uncl.

1. *Plants which display heterosis (hybrid vigor)*

ABS. JOUR. : RZABiol., No. 3, 1959, No. 171

2. *Plants which show heterosis*

3. *Plants which show heterosis*

4. *Plants which show heterosis*

5. *Plants which show heterosis*

6. *Plants which show heterosis*

7. *Plants which show heterosis*

8. *Plants which show heterosis*

9. *Plants which show heterosis*

10. *Plants which show heterosis*

SIMOCHKINA, M.Ya.

Catalase activity in wheat plants grown from embryos transplanted  
on alien endosperm. Trudy Inst. gen. i sel. AN URSS 5:88-92 '58.  
(Wheat) (Catalase) (MIRA 11:9)



SIMOCIC, Josko, inz.; BEBIC, Dusan, inz.

The Yugoslav-Italian cooperation in the field of refrigeration.  
Tehnika Jug 17 no.8:Suppl.: Prehran ind 16 no.8:1584-1588  
Ag '62.

1. Visi strucni saradnici Centra za primenu niskih  
temperatura Poljoprivrednog fakulteta Univerziteta u  
Beogradu.

RUMANIA / Organic Chemistry. Theoretical and General  
Problems of Organic Chemistry.

E-I

Abs Jour : Ref Zhur - Khimiya, No 6, 1957, No 19018

Author : Simoi-O.

Inst : Not given

Title : Oxidation and Reduction Reactions in Organic Chemistry.

Orig Pub : Studii si Cercetari Stint. Acad. RPR. Baza Timisoara. Ser.  
1, 1955, 2, No 1-4, 153-164.

Abstract : It is suggested to classify organic substances according  
to the oxidation-reduction stage of the C atoms it con-  
tains and to classify organic reactions according to the  
changes of the corresponding oxidation-reduction stages.  
The principles of such a system are described.

Card : 1/1

SI CI, G.: ~~SHAFER, T.~~  
TECHNOLOGY

Normal pressure of liquids on solid walls, p. 15

Academia Republicii Populare Romane. Casa de Cercetari Stiintifice,  
Timisoara. STUDII SI TRACTARI STIINTIFICE. STIA STIINTA TEHNICE.  
Timisoara.

(Journal on technical sciences issued by the Scientific Research Base  
in Timisoara, Romanian Academy.)

Vol. 3, no. 3/4, 1956

Monthly List of East European Accessions (EEAI), 13, Vol. 8, no. 3  
March 1958, Unclass.

RUMANIA/Atomic and Molecular Physics - Gas.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 12867

Author : Simoi, C.

Inst :

Title : Thermal Pressure of Gases in Non-Isothermal Contact with Walls.

Orig Pub : Studii si ceretari stiint. Acad. RPR. Baza Timisoara.  
Ser. Stiinte tehn., 1957, 4, No 3-4, 93-107.

Abstract : If the temperature of the wall differs from the temperature of the surrounding gas, then upon collision of the gas molecules with the wall their kinetic energy will change, and the author proposes to introduce a coefficient of restoration as the ratio of the average velocity of the molecules colliding with the wall and moving from the wall, to the average velocity of the molecules moving towards the wall. Upon collision of molecules with the wall, the coefficient of restoration can be both greater and

Card 1/2

RUMANIA/Atomic and Molecular Physics. Gas.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 12867

less than unity. Using the relations obtained, the author explains the molecular radiometric phenomena. The new expression obtained for the thermal pressure is formally similar to the expression of Lebedev for light pressure, but the coefficient of restoration is contained instead of the coefficient of reflection. -- A.A. Senkevich.

Card 2/2

- 31 -

RUMANIA/Atomic and Molecular Physics - Liquids.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 12901

Author : Simoi, C.

Inst : -

Title : Thermal Surface Pressure in Solids and Liquids.

Orig Pub : Studii si cercetari stiint. Acad. RFR. Baza Timisoara.  
Ser. stiinte tehn., 1957, 4, No 3-4, 109-115.

Abstract : An analysis is given for the thermal motion of molecules in the surface film of a body. An expression is obtained for the thermal pressure with allowance for the change in the potential energy near the surface, in the form

$$p = n_0 [kT - 2/3 (U_x - U_0)],$$

Where  $n_0$  is the number of molecules per cubic centimeter,  $k$  is Boltzmann's constant,  $T$  is the absolute temperature, and  $(U_x - U_0)$  is the change in the potential energy at the point  $x$ . An explanation is given for molecular radiometric phenomena and for the scattered character of

Card 1/2

- 32 -

SIMOI, C.

The Compton wave in the motion of the photonic rotator. Studii chim  
Timisoara 6 no.3/4:167-173 J1-D '59. (EBAI 10:4)

1. Institutul politehnic, Timisoara.  
(Wave mechanics) (Photons)

SIMOI, C.

The de Broglie wave as the wave of the differential photon. Studii  
chim Timisoara 6 no.3/4:175-179 J1-D '59. (EEAI 10:4)

1. Institutul politehnic, Timisoara.  
(Wave mechanics) (Photons)



SIMOI, C.

Photophoresis phenomena by local thermal convection. Studii chim  
Timisoara 10 no.1:125-129 Ja-Je '63.

1. Laboratorul de fizica al Institutului Politehnic, Timisoara.

SIMOI, C.

An experience of relativistic optics. Studii chim Timisoara 10  
no.1:131-136 Ja-Je '63.

SIMONON', B.A., kapitan meditsinskoy sluzhby

Local leukocytosis in appendicitis. Voen.med.shur. no.12:67-69 D '56.  
(MLBA 10:3)

(APPENDICITIS, diag.  
determ. of local leukocytosis)  
(LEUKOCYTOSIS, etiol. and pathogen.  
appendicitis, diag. by local leucosis)

LEVINA, R.Ya.; KAYKARIS, P.A.; SIMOLIN, A.V.; TRESHCHOVA, Ye.G.

Synthesis of hydrocarbons. Part 66:  $C_{11}$  -  $C_{16}$  hydrocarbons with  
two adjacent quaternary carbon atoms. Zhur.ob.khim. 28 no.9:2309-  
2314 S '58. (MIRA 11:11)

1. Moskovskiy gosudarstvennyy universitet.  
(Hydrocarbons)